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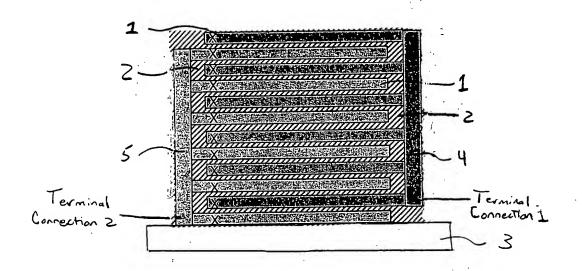


Fig. 1

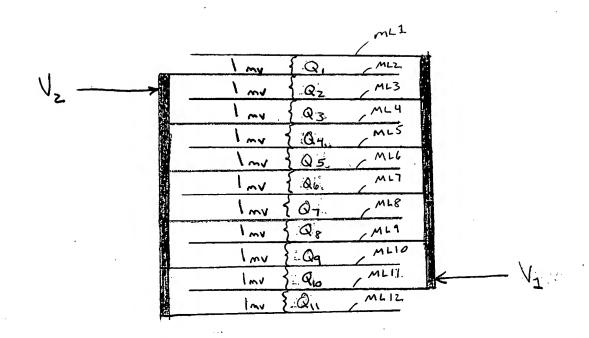


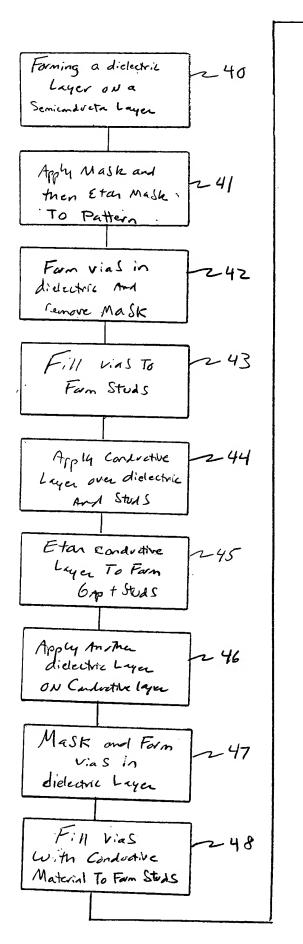
Fig. 2

First Terminal 11 Q = C V

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Deposit Another
Conductive layer over
Dielectric layer

Deposit Additional
dielectric and
Conductive layers
AS needed

Fig. 4

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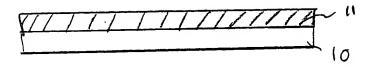


Fig. Sa)

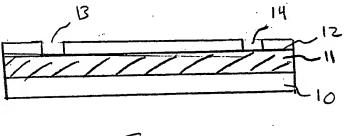


Fig. 5(b)

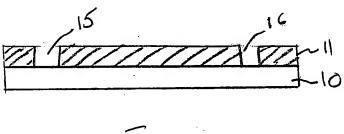
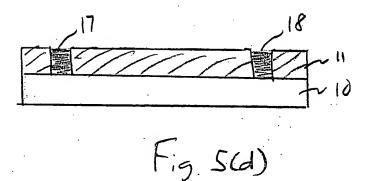
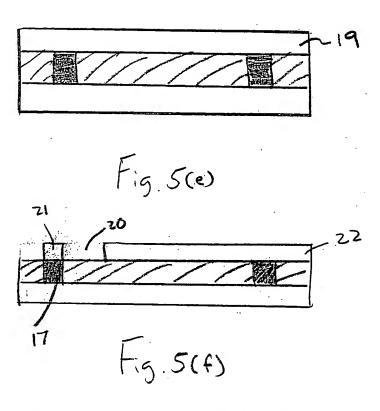
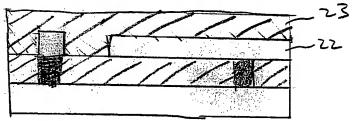


Fig. 5(c)







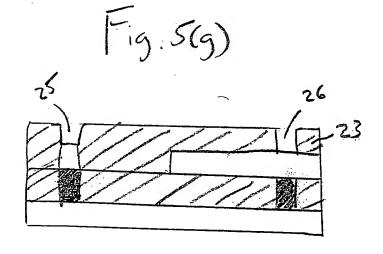


Fig. 5(h)

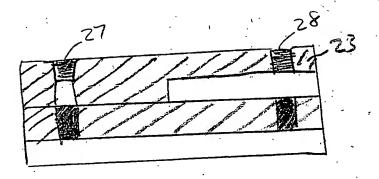


Fig. 5(1)

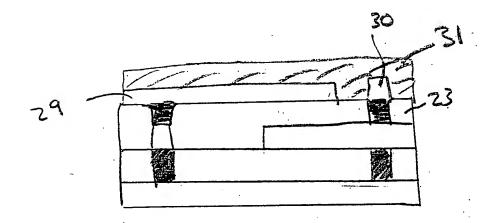
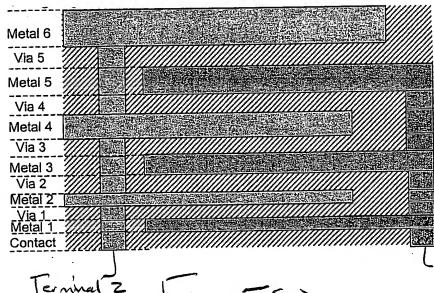


Fig. 5(i)



Termhal I

Terminal = Fig. 5(k)

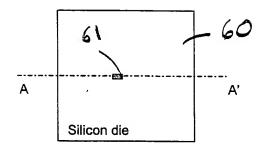


Fig.6(a)

Equivalent capacitor

Fig.6(6)

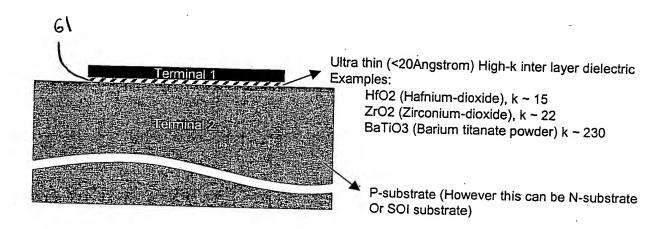


Fig. 6(1)

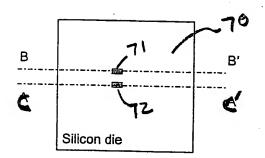
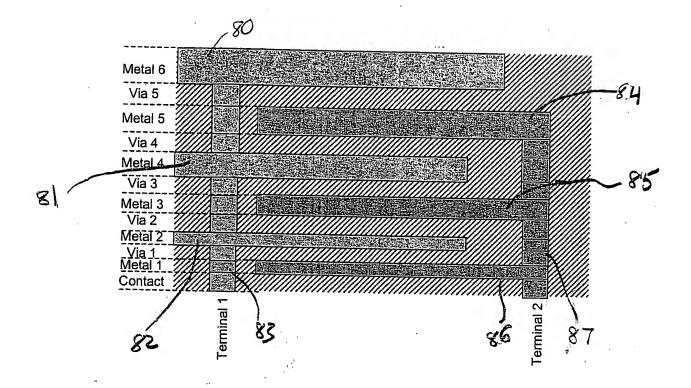


Fig.7(a)

Fig. 7(b)



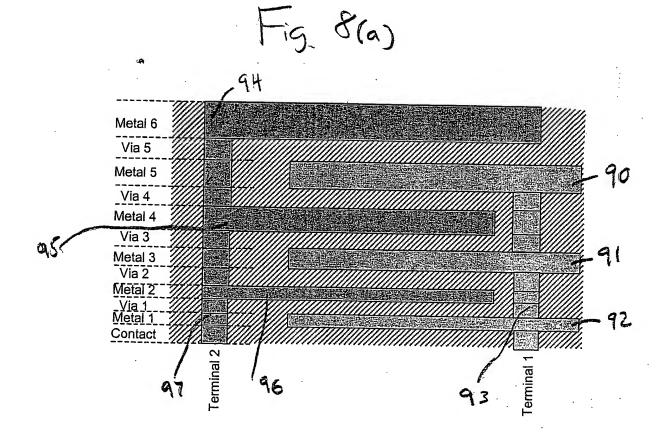


Fig. 8(b)

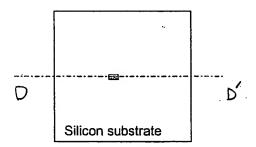


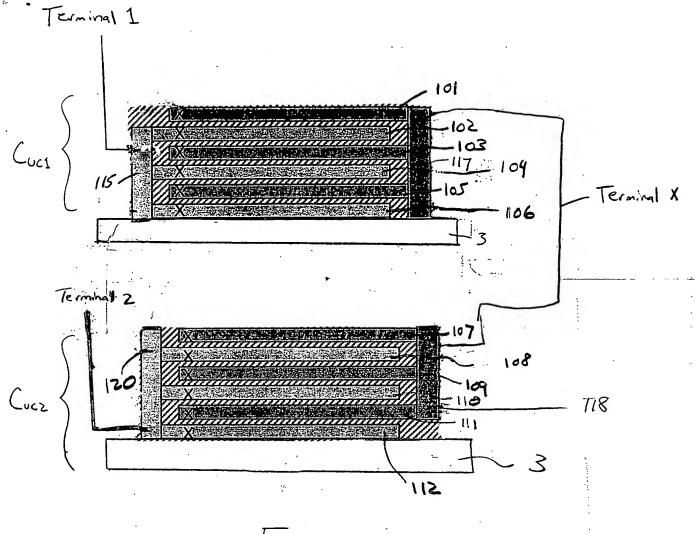
Fig. 9(a)

Equivalent capacitor

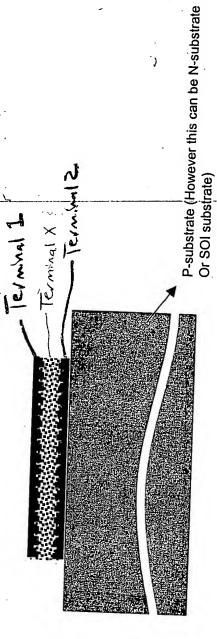
Terminal 1
$$C_{vc_1} = V_1$$

$$V_2$$
Terminal 2

Fig. 9(6)



=,g.10



Electrode (Terminal 1) – Example: Porous carbon or doped silicon. Can be conductive carbon or silicon nanotube. Electrolyte (Terminal x) – Example: Potassium hydroxide Electrode (Terminal 2) – Example: Porous carbon or doped silicon. Can be conductive carbon or silicon nanotube.

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Example cross section showing stacking of multiple substrate to increase the capacitance per unit area

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Terminal 1

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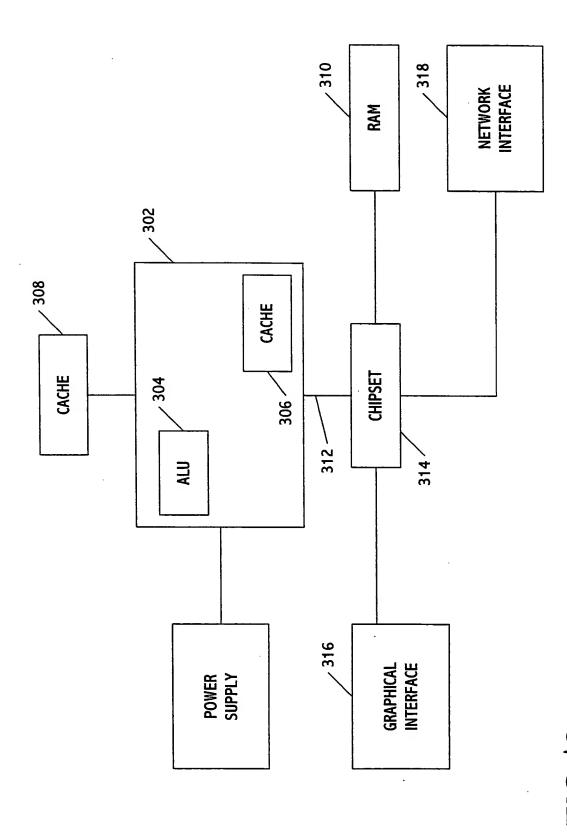


FIG.13